

ATGTCCCAGAAACAAGAAGAAGAAAACCTGCGGAGGAGACCGGCGAGGAGAAGCAGGATACACAGG
AGAAAGAAGGGATTCTCCCTGAGAAAGCTGAGGAGGCAAAGCTAAAGGCCAAATACCCAAGCCTAGG
ACAAAAGCCTGGAGGCTCCGACTTCCTCATGAAGAGACTCCAGAAAGGGCAAAAGTACTTTGACTCA
GGAGACTACAACATGGCCAAAGCCAAGATGAAGAACAAGCAGCTGCCAAGTGCAGGAGCAGACAAGA
ACCTGGTGACCGGTGACCACATCCCCACCCACAGGATCTGCCCCAGAGAAAGTCCTCGCTCGTCAC
CAGCAAGCTTGCGGGTGGCCAAGTTGAATGA (SEQ ID NO:1)

MSQKQEEENPAEETGEEKQDTQEKEGILPEKAEAAKLKAKYPSLGQKPGGSDFLMKRLQKGQKYFDS
GDYNMAKAKMKNKQLPSAGADKNLVTGDHIPTQDLPQRKSSLVTSKLAGGQVE (SEQ ID
NO:2)

MSQKQEEENPAEETGEEKQDTQEKEGILPERAEAAKLKAKYPSLGQKPGGSDFLMKRLQKGQKYFDS
GDYNMAKAKMKNKQLPSAGPDKNLVTGDHIPTQDLPQRKSSLVTSKLAGGQVE (SEQ ID
NO:3)

MSQKQEEENP AEETGEEKQD TQEKEGILPE RAEAAKLKAK YPSLGQKPGG SDFLMKRLQK
GQKYFDSDY NMAKAKMKNK QLPSAGPDKN LVTGDHIPT QDLPQRKSSL VTSKLAG (SEQ
ID NO:4)

FIGURE 1

TCGGTTAAAAACGTCACGGGCTTGAGCCGCCATTTTGACTGAGCAACCATAGTGATAGGA
 GCCGTAGCATTAGCTCAGGTTGT (SEQ ID NO:5)

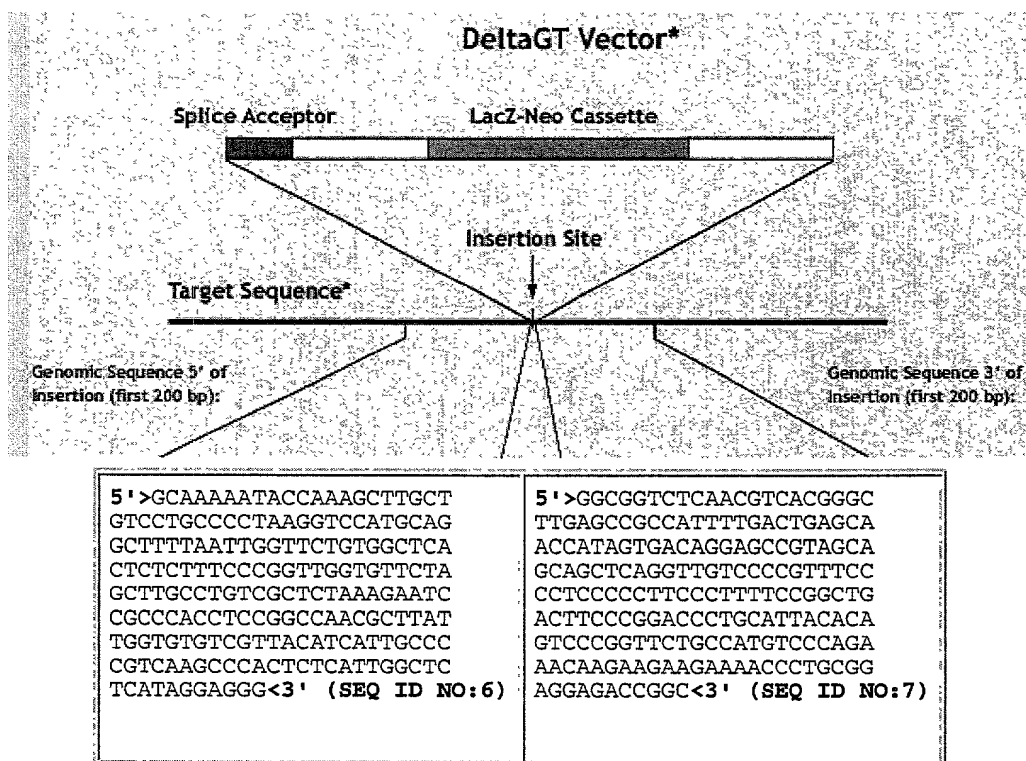


FIGURE 2

α -endosulfine

Glucose Stimulated Insulin Secretion Test

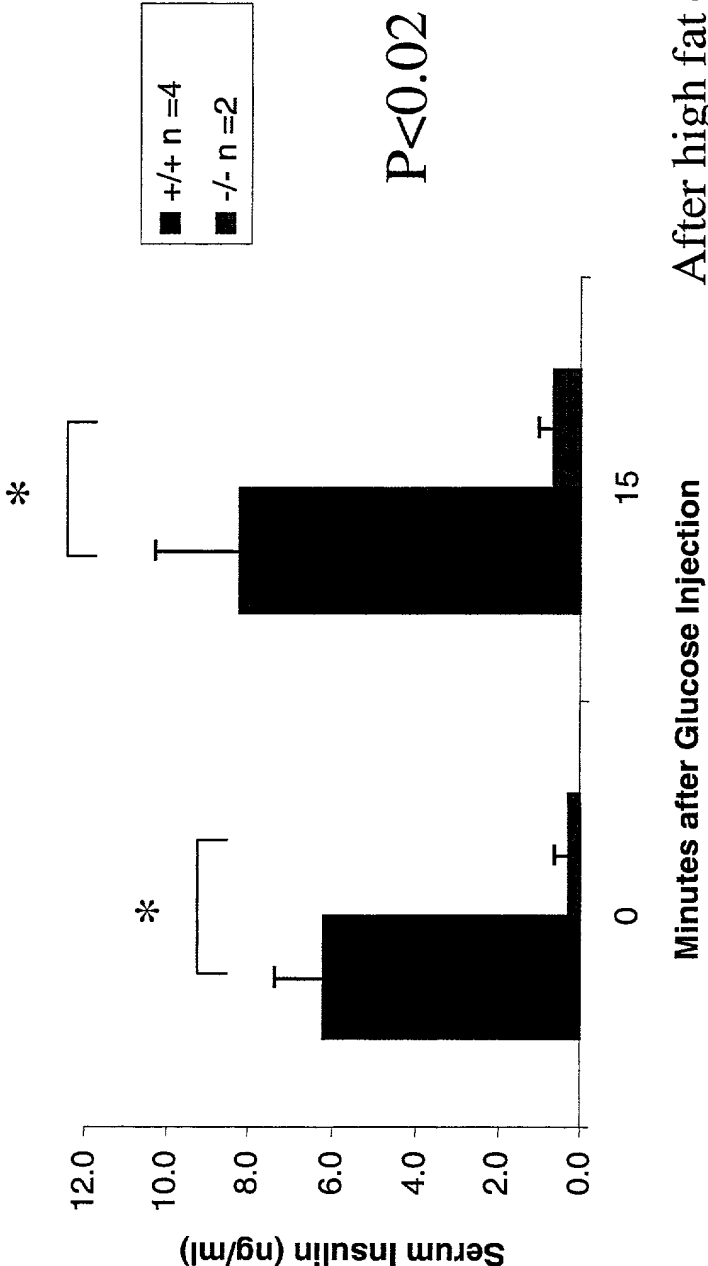


FIGURE 3

α -endosulfine

Glucose Tolerance Test (I.P.)

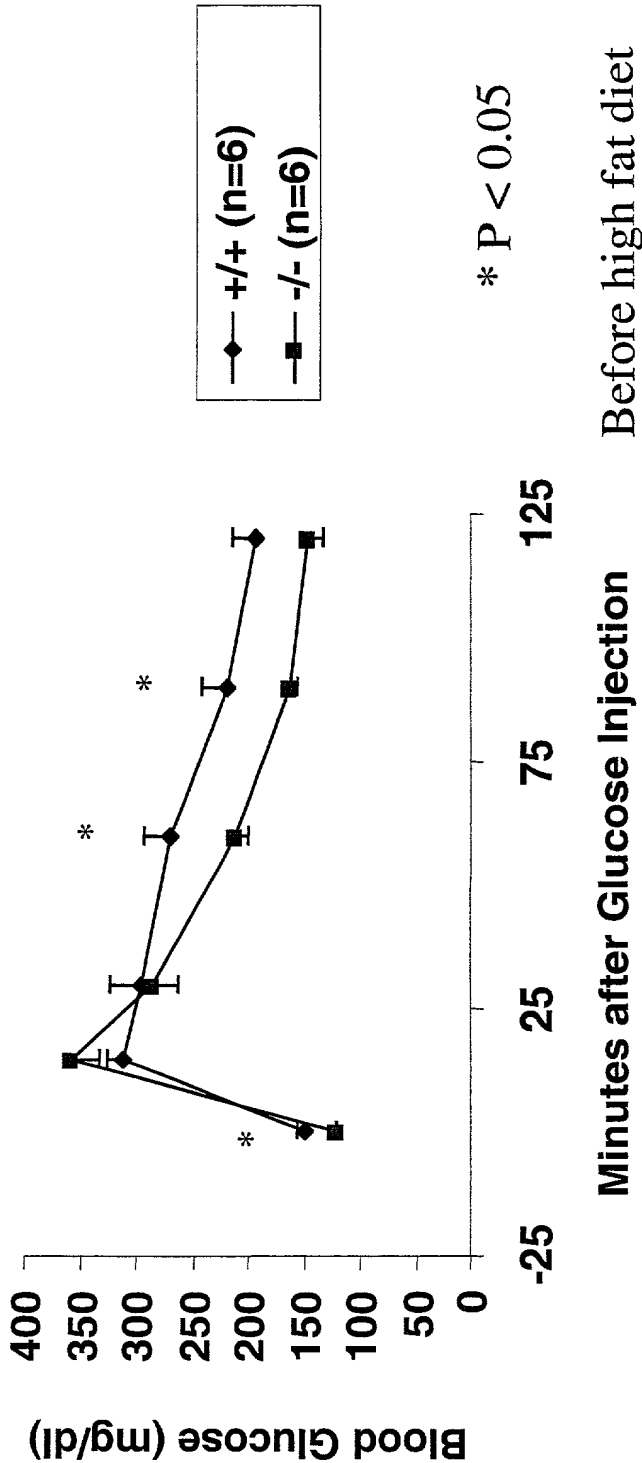


FIGURE 4

α -endosulfine

Insulin Suppression Test

Insulin 1.0 U/kg

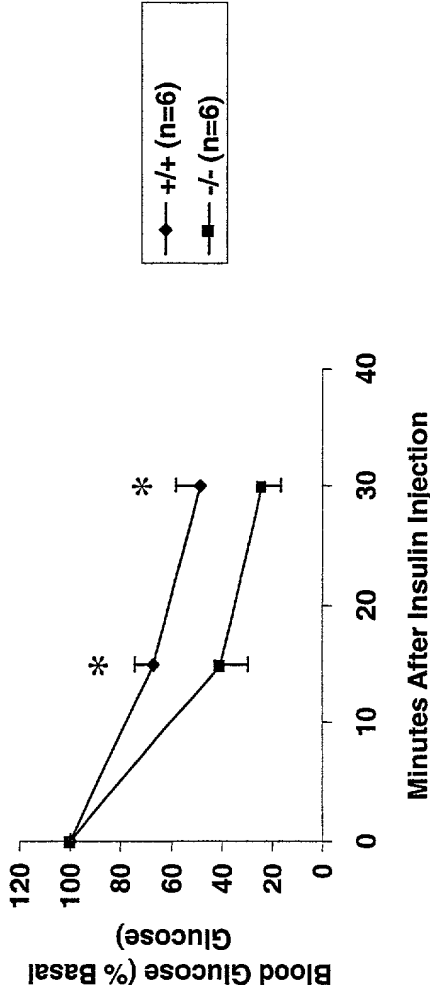


FIGURE 5A

Mice from both
chow group and
high fat diet group

* $P < 0.02$

Insulin 0.5 U/kg

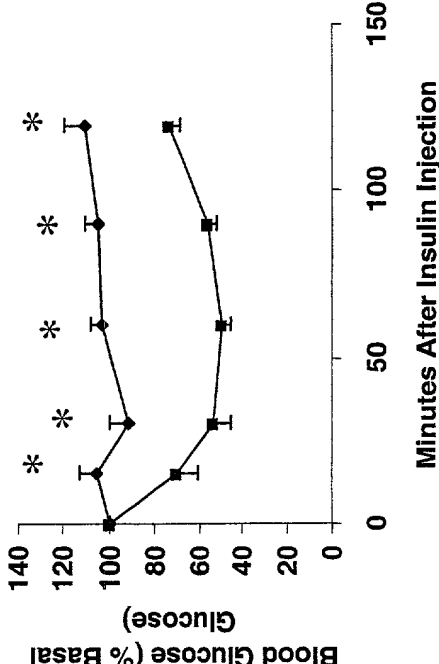
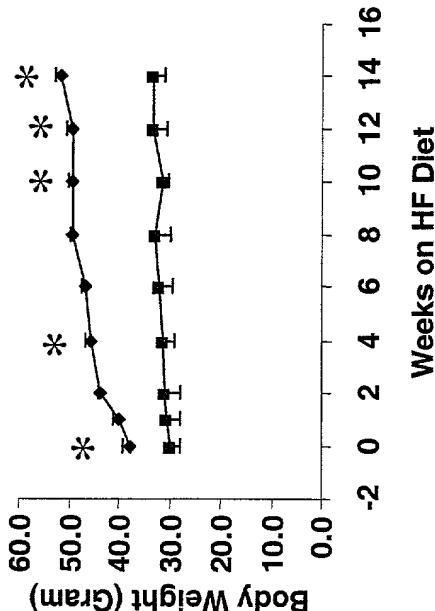


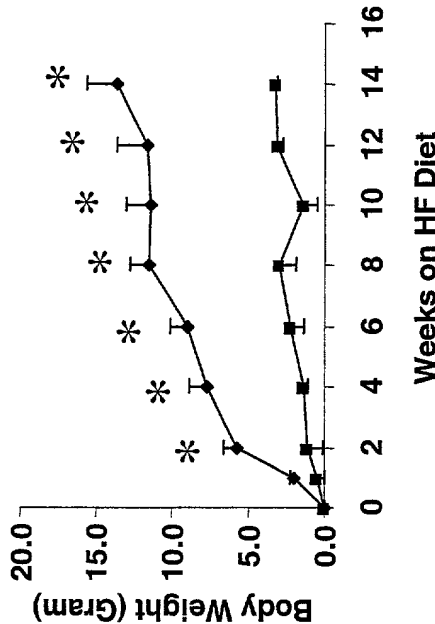
FIGURE 5B

α -endosulfine

Body Weight After High Fat Diet



Body Weight Gain After High Fat Diet



◆ +/+ (n=4)
■ -/- (n=2)

* $P < 0.05$

FIGURE 6A

FIGURE 6B

α -endosulfine

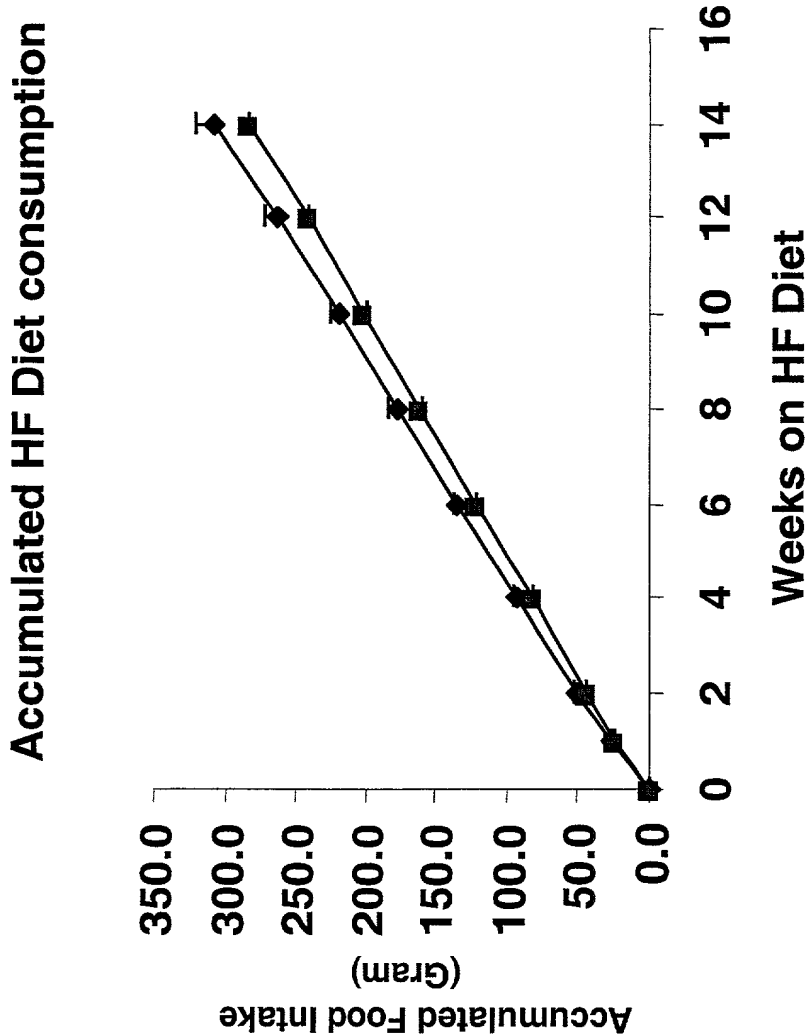


FIGURE 7

Open Field Summary Data - Distance Travelled

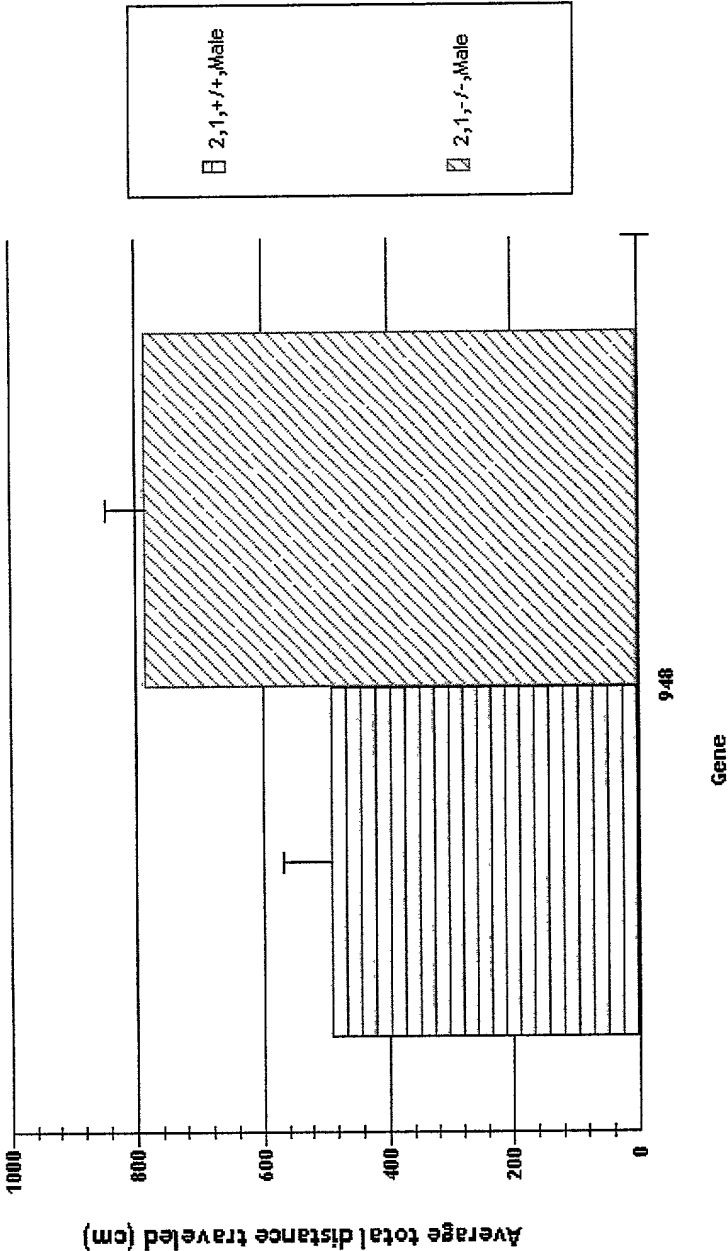


FIGURE 8